HIGH DEFINITION DIGITAL VIDEO RECORDER

DVR5100
DVR7100

User Manual

Thank you for choosing Philips.

Need help fast?

Read your Quick Use/Start Guide and/or User Manual first for quick tips that make using your Philips product more enjoyable. If you have read your instructions and still need assistance, you may access our online help at ***www.philips.com/welcome***

DVB® Digital Video Broadcasting

HDMI

PHILIPS

AUSTRALIA - Philips Manufacturers Warranty for Australia only

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sense and simplicity

These Warranty conditions are valid for the following consumer electronics products: Colour Televisions, Projection TV, Plasma & LCD TV, DVD Players, DVD Recorders, DVD Recorders with HDD, Personal Video Recorders, Audio Systems, Home Theatre systems, Digital Set Top Box, Digital Photo Display, MP3 players & Portable Audio products.

The benefits given to the purchaser by this warranty are in addition to all other rights and remedies, which the purchaser has in respect of the product under the Trade Practices Act or other Commonwealth or State Law.

Philips Consumer Electronics warrants its products to the purchaser as follows and subject to the stated conditions.

1 Year Free Repair Service – at Philips ASC

Colour Television, Plasma Television, LCD Television, Projection Television DVDR/VCR Combo, DVD Recorder with Hard Drive, Personal Video Recorder, LCD Projector, Wireless Audio System, Audio System, Home Theatre System & Digital Photo Display (Photo Frame) & Digital Set-Top-Box.

1 Year Free Replacement – at your Retailer

Portable Audio, MP3 players, DVD Players, DVD/VCR Combo Players, DVD Recorders without HDD & Portable DVD/LCD players.

Conditions of Repair Warranty

1. All claims for warranty service should be made to your nearest Philips Authorised Service Centre or the Philips Technology Care Centre. Reasonable evidence of date of purchase must be provided.
2. This warranty extends only to defects in material or workmanship occurring under normal use of the product when operated in accordance with the instructions.
3. If a replacement product is supplied under the repair policy, it is warranted for the remainder of the warranty period of the original purchased product only.
4. Home service is provided only within the normal service area of one of our recommended Authorised Service Centres (ASC). It will be provided for television receivers only with a screen size of 67cms or above (product includes CRT, LCD TV, PTV, and Plasma TV). Televisions with screen sizes less than 67 cms and all other product types are to be taken or sent by the consumer to the workshop of your nearest Authorised Service Centre, at the Consumer's expense.
5. This Manufacturers Warranty is limited to 3 months for the above listed Consumer Electronics Products if used in commercial applications.
6. Philips may, at its discretion choose to replace rather than repair any product covered by this warranty.
7. Product accessories are covered by the same warranty period. Please contact the Philips Technology Care Centre for free replacement of faulty accessories.
8. This Manufacturers Warranty is neither transferable nor valid in countries other than Australia.

This warranty does not cover:

a) Mileage or travel outside the normal service area covered by selected Authorised Service Centre.

b) Service costs arising from failure to correctly adjust the controls of the product or to observe the instructions, or inspections that reveal that the product is in normal working order.

c) Product failures caused by misuse, neglect, accidental breakage, transit damage, inexpert repairs or modification by un-authorised persons, external fires, lightning strikes, floods, vermin infestation or liquid spillage.

d) Cleaning of video or audio heads.

e) Inadequate receiving antennae.

f) Replacement of worn or used batteries or other consumables.

g) Consumer products used in commercial applications (This warranty is limited to 3 months only)

h) Second hand products.

The conditions contained in this warranty card replace and override the provision of the Philips World-Wide Guarantee for products purchased in Australia and used in Australia.

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For direct contact with the nearest recommended Authorised Service Centre in capital & regional cities/towns

Authorised Service Centre Network

1300 361 392

Customer support is provided in Australia by our trained call centre staff
For assistance with product features and specifications, please call

Technology Care Centre

1300 363 391

Please record the following information for your records and keep in a safe place.
We recommend retaining your purchase receipt to assist with any warranty claim

Model number	**: ……..**
Serial number	**: ……..**
Date of purchase	**: ……..**
Retailer	**: ……..**

'CONSUMERS SHOULD NOTE THAT NOT ALL HIGH DEFINITION TELEVISION SETS ARE FULLY COMPATIBLE WITH THIS PRODUCT AND MAY CAUSE ARTIFACTS TO BE DISPLAYED IN THE PICTURE. IN CASE OF 525 OR 625 PROGRESSIVE SCAN PICTURE PROBLEMS, IT IS RECOMMENDED THAT THE USER SWITCH THE CONNECTION TO THE 'STANDARD DEFINITION' OUTPUT. IF THERE ARE QUESTIONS REGARDING OUR TV SET COMPATIBILITY WITH THIS MODEL 525p AND 625p DVD PLAYER, PLEASE CONTACT OUR CUSTOMER SERVICE CENTER.'

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English

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General Information

WARNING!
This unit does not contain any user-serviceable parts. Please leave all maintenance work to qualified personnel.

Setup precautions

Finding a suitable location
– Place this unit on a flat, hard and stable surface. Never place the unit on a carpet.
– Never place this unit on top of other equipment that might heat it up (e.g., receiver or amplifier).
– Never put anything under this unit (e.g., CDs, magazines).
– Install this unit near the AC outlet where the AC power plug can be easily reached.
– For MAINS powered apparatus and for apparatus producing internal voltages greater than 35 V (peak) a.c. or d.c., having no protection against splashing water, the apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.
– With regard to devices for disconnection from the MAINS, where the MAINS plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.
– The appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.

Space for ventilation
– Place this unit in a location with adequate ventilation to prevent internal heat build up. Allow at least 10 cm (4") clearance from the rear and the top of this unit and 5 cm (2") from the left and right to prevent overheating.

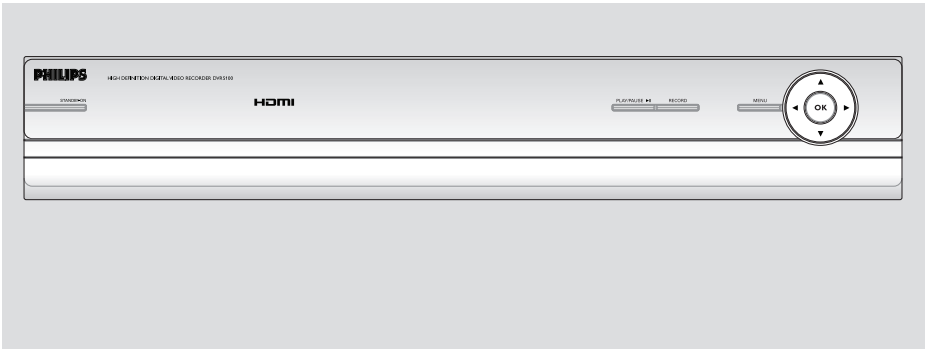
Avoid high temperature, moisture, water and dust
– This unit must not be exposed to dripping or splashing.
– Never place any object or items that can damage this unit (e.g., liquid filled objects, lighted candles).

Accessories supplied

– 1 audio/video cable
– 1 component video cable
– 1 remote control with batteries
– 1 RF antenna cable
– 1 antenna interconnected cable
– 1 power cable
– Quick Start Guide

About recycling

These operating instructions have been printed on non-polluting paper. The electronic equipment contains a large number of materials that can be recycled. If you are disposing of an old machine, please take it to a recycling centre. Please observe the local regulations regarding disposal of packaging materials, exhausted batteries and old equipment.



① **STANDBY-ON**
– Turns the recorder on or to standby mode.

② **Display panel**
– Shows information about the current status of the recorder.

③ **PLAY/PAUSE ►II**
– Starts playback of the selected title.
– Pauses the playback or recording.

④ **RECORD**
– Starts recording the current TV programme.

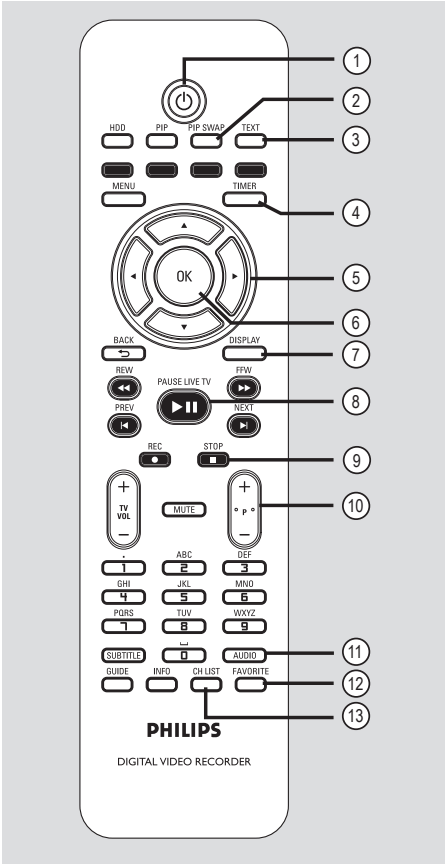
⑤ **MENU**
– Enters or exits the recorder's system menu.

⑥ **◄►**:
– Cursor keys for moving to the left/right in the menu.
– skips to the previous/next 10 seconds during playback; moves the sub-picture position in PIP mode.

▲▼:
– Cursor keys for moving up/down in the menu.
– selects previous/next TV channel for the sub-picture in PIP mode.

⑦ **OK**
– Confirms an entry or selection in the menu.

Remote Control



① ⏻
– Turns the recorder on or to standby mode.

② **PIP SWAP**
– Swaps between the main and sub-pictures in PIP mode.

③ **TEXT**
– Enters or exits Teletext mode.

④ **TIMER**
– Enters or exits the timer recording menu.

⑤ **◄►**:
– Cursor keys for moving to the left/right in the menu; skips to the previous/next 10 seconds during playback; moves the sub-picture position in PIP mode.

▲▼:
– Cursor keys for moving up/down in the menu; selects previous/next TV channel for the sub-picture in PIP mode.

⑥ **OK**
– Confirms an entry or selection in the menu.

⑦ **DISPLAY**
– Displays the playback/recording time bar on first press and {I-Plate} on second press.
– While in Live TV mode, displays the {I-Plate}.

⑧ **PAUSE LIVE TV ►II**
– While in HDD List, starts playback of currently active title from resume point.
– Pause live TV and resume playback.

⑨ **STOP ■**
– Stops playback or recording.

⑩ **P + −**
– While in tuner mode, selects the next/previous TV channel.

⑪ **AUDIO**
– Toggles through available audio tracks.

⑫ **FAVORITE**
– Enters or exits favourite channel list.

⑬ **CH LIST**
– Enters or exits channel list.

⑭ **PIP**
– Enters or exits PIP mode.

⑮ **HDD**
– Enters the recorded HDD List.

⑯ **Colour coded buttons**
– These buttons are used to select the coloured options available in some menu displays on the TV screen.

⑰ **MENU**
– Enters or exits the recorder's system menu.

⑱ **BACK ⮌**
– Returns to the previous menu without saving and exits the menu eventually.
– During installation wizard, returns to the previous item or exits any menu.

⑲ **REW ◀◀, FFW ▶▶**
– Fast reverse/forward search.
– During paused playback, slow reverse/forward search.

⑳ **PREV ⏮, NEXT ⏭**
– Jumps to previous/next chapter marker.

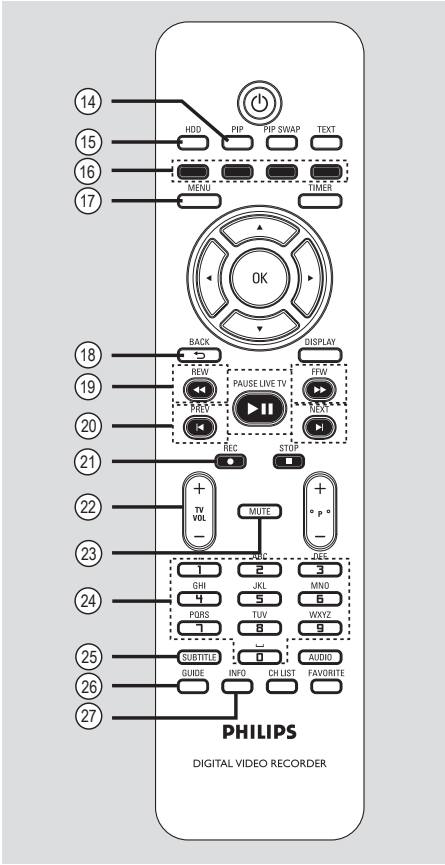
㉑ **REC ●**
– Starts recording the current TV programme.

㉒ **TV VOL + −**
– Adjusts the volume of the TV (for Philips TV with RC5 code only).

㉓ **MUTE**
– Mutes or restores the volume (for Philips TV with RC5 code only).

㉔ **Alphanumeric keypad**
– Enters numbers in appropriate entry fields.
– Selects the recorder's preset TV tuner channel.

㉕ **SUBTITLE**
– Enters or exits subtitles.

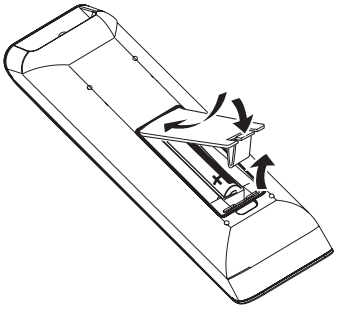


㉖ **GUIDE**
– Enters or exits EPG (Electronic Program Guide).

㉗ **INFO**
– Enters or exits 'Information' window (not available in Time-shift recording and playback mode).

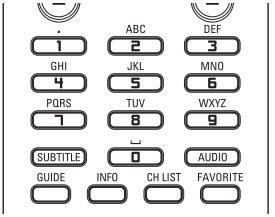
Remote Control (continued)

Using the remote control



1. Open the battery compartment.
2. Insert two batteries type R03 or AAA, following the indications (+ −) inside the compartment.
3. Close the cover.
4. Point the remote control directly at the remote sensor (iR) on the front panel.
5. Then select the desired function (for example ⏮, ⏭).

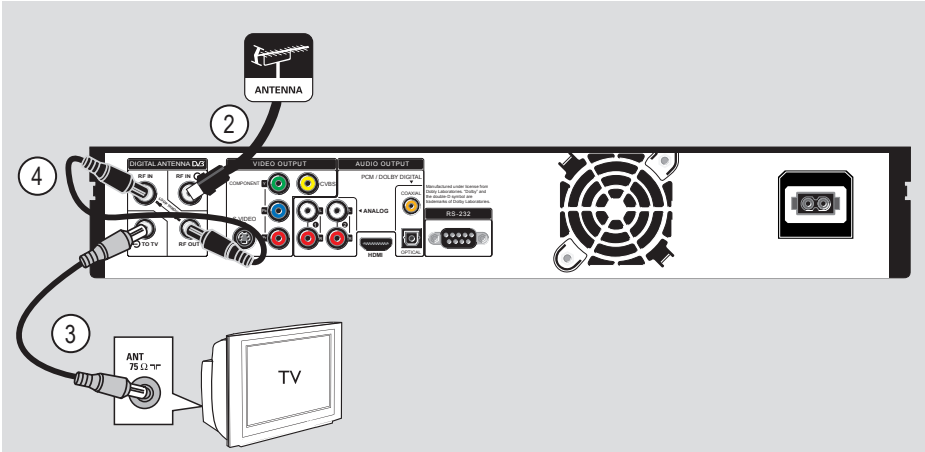
Using the alphanumeric keypad to enter the characters



– Press a number button repeatedly until the required character or the number appears.

– To enter a space, press button {0}.

CAUTION!
– Remove batteries if they are exhausted or if the remote control is not to be used for a long time.
– Never mix batteries (old and new or carbon and alkaline, etc.).
– Batteries contain chemical substances, they should be disposed of properly.



Set up for integrated Digital TV only

Step 1: Connecting the antenna cables

These connections enable you to watch and record TV programmes using this recorder.

1. Unplug the antenna cable that is currently connected to your TV.

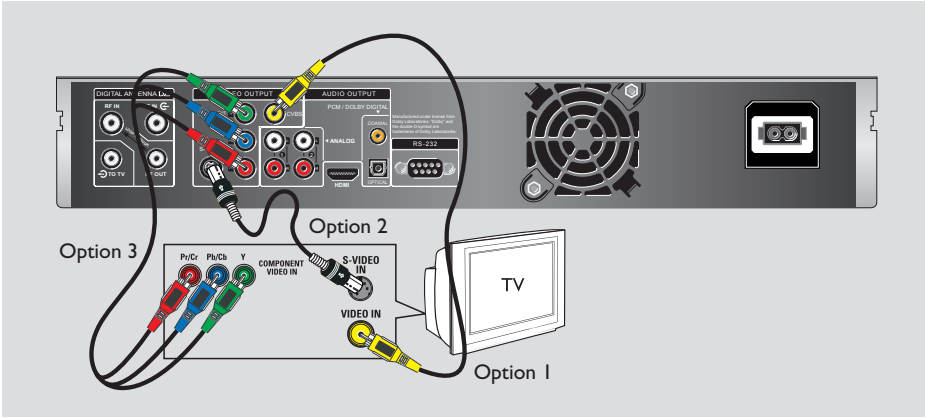
2. Plug in the antenna cable into the **DIGITAL ANTENNA INPUT** socket on the recorder.

3. Use the supplied RF antenna cable to connect the **TO TV ANTENNA** socket on this recorder to the Antenna In socket on the TV.

   Helpful Hints :
   Use the best quality AV connectors (CVBS/ S-Video/Component Video/HDMI), not the RF connections from this recorder to the television, to achieve the best video quality.

4. Use the supplied antenna interconnected cable to loop through between **RF IN** and **RF OUT**.

Basic Connections (continued)



Step 2: Connecting the video cable

This connection enables you to view the playback from this recorder. You only need to choose one of the options below to make your video connection.

– For a standard TV, follow option 1, 2 or 3.
– For a HDMI TV, follow option 4.

Option 1: Using the Video (CVBS) socket

Use a composite video cable (yellow) to connect the **VIDEO OUTPUT - CVBS** socket on the recorder to the video input socket (or labelled as A/V In, Video In, Composite or Baseband) on the TV.

– Audio connection is required in order to hear the sound, see page 15.

Option 2: Using the S-Video socket

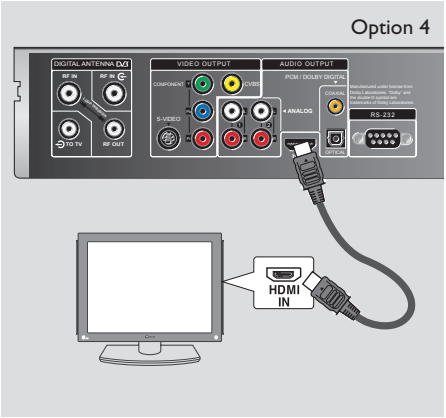
Use an S-video cable (not supplied) to connect the **S-VIDEO** socket on the recorder to the S-Video input socket (or labelled as Y/C or S-VHS) on the TV.

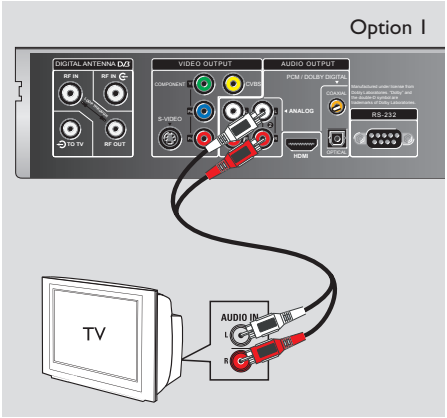
– Audio connection is required in order to hear the sound, see page 15.

Option 3: Using the COMPONENT Y P_B P_R sockets

Use the component video cables (red/blue/green) to connect the **VIDEO OUTPUT-COMPONENT - Y P_B P_R** sockets on the recorder to the corresponding component video input sockets (or labelled as Y P_b/C_b P_r/C_r or YUV) on the TV.

– Audio connection is required in order to hear the sound, see page 15.





Option 4: Connecting to a HDMI compatible TV

HDMI (High Definition Multimedia Interface) is a digital interface that allows pure digital video transmission without the loss of image quality.

Use an HDMI cable (not supplied) to connect the **HDMI** socket on this recorder to the HDMI IN socket on a HDMI compatible device (e.g. HDMI TV, HDCP compliant DVI TV).

Helpful Hints:
– Digital devices from different manufacturers may have different output standards which may result in unreliable signal transfers.
– The HDMI connector is only compatible with HDMI compliant devices and DVI-TV.

Step 3: Connecting the audio cables

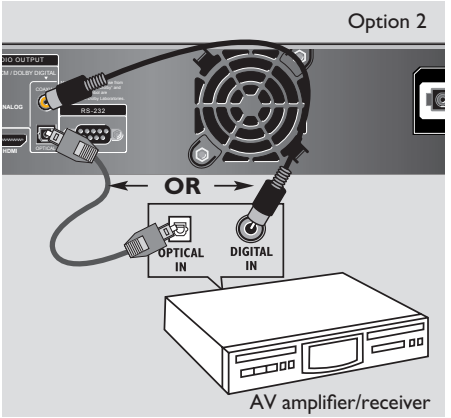
This connection enables you to listen to the playback from this recorder. However, this connection is not required if this recorder is connected to the TV using the HDMI connectors.

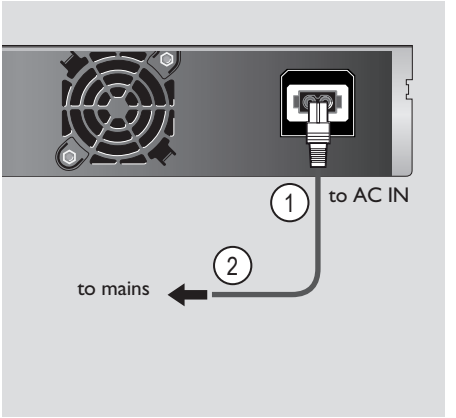
Option 1: Using the analogue audio sockets

You can connect the recorder to a two channel stereo system (mini system, TV) or receiver in order to enjoy the stereo sound system.

Use an audio cable (red/white) to connect the **AUDIO OUTPUT - L/R 1** or **2** sockets to the audio input sockets of the connected device.

Basic Connections (continued)





Option 2: Using the digital audio socket (COAXIAL or OPTICAL)

You can connect the recorder to an AV amplifier/receiver in order to enjoy multichannel surround sound.

Use a coaxial cable (not supplied) to connect the **COAXIAL** socket to the digital coaxial input socket (or labelled as COAXIAL IN or DIGITAL IN) of the connected device.
– an A/V receiver or amplifier with a digital multi-channel sound decoder.
– a receiver with two-channel digital stereo (PCM).

OR

Use an optical fibre-optic cable (not supplied) to connect the **OPTICAL** socket to the optical input socket of the connected device.
– Make sure that both plugs are fully inserted (until a click is heard).

Step 4: Connecting the mains lead

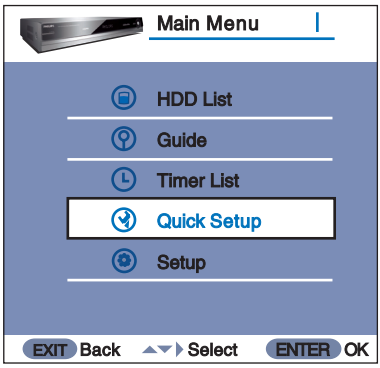
Connect the supplied mains lead to the AC IN terminal of the recorder. Then plug the recorder into the mains. After you connect the mains lead, **you must wait for a short while before operating the recorder**. You can operate the recorder once the front panel display lights up and the recorder enters standby mode.

Guide to Displays

The { **Main Menu** } provides entries to all of the recorder's main functions.

Main Menu

1. Press **MENU** on the remote control. > { **Main Menu** } appears.
2. Press cursor ▲ ▼ keys to select an option and press **OK** to enter.



{ **HDD List** }
Displays the list of the recorded titles, including the recording information, which allows you to select a title to play.

{ **Guide** }
Displays { **Electronic Program Guide** }, which allows you to watch or record a programme.

{ **Timer List** }
Displays { **Timer Recording** }, which allows you to set the timer manually.

{ **Quick Setup** }
Displays { **Quick Setup** }, which allows you to make initial settings in the following order:
Setting time zone → Channel search mode → City → Scan channel

{ **Setup** }
Displays { **Setup** } for setting up the recorder to suit your preferences.

Sub-menu

The sub-menu appears when you select an item from a list menu (e.g., { **HDD List** }), and press **OK**. The sub-menu displays options applicable only to the selected item. (The displayed options differ depending on the situation.)
Select an option by pressing cursor ▲ ▼ keys and press **OK**.

English

Initial Setup

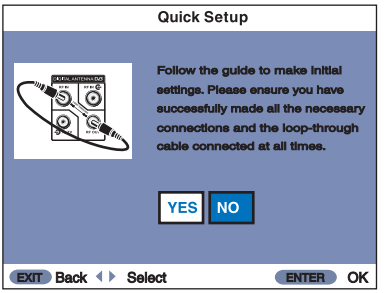
The basic installation menu will appear the very first time you turn on the recorder. Make the basic adjustment to start using the recorder.

Quick Setup

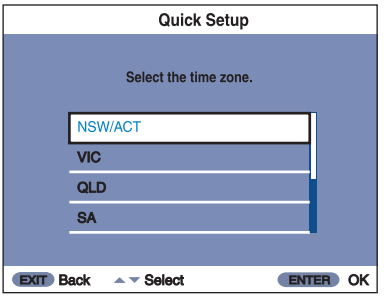
{ **Quick Setup** } allows you to set the time zone and preset the channels automatically.

1. Press ⏻ to turn on the recorder.

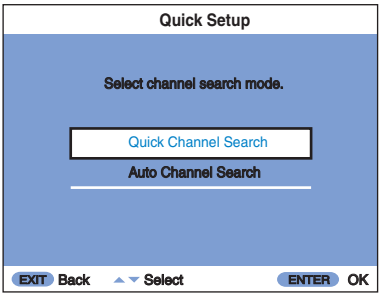
2. Turn on the TV and switch the input selector so that the signal from the recorder appears on the TV screen.
   ➔ { **Quick Setup** } menu appears.
   ➔ If { **Quick Setup** } does not appear, press **MENU**, then select { **Quick Setup** } and press **OK** to enter the setup screen.


Quick Setup
Follow the guide to make initial settings. Please ensure you have successfully made all the necessary connections and the loop-through cable connected at all times.
YES
NO
EXIT Back
Select
ENTER OK

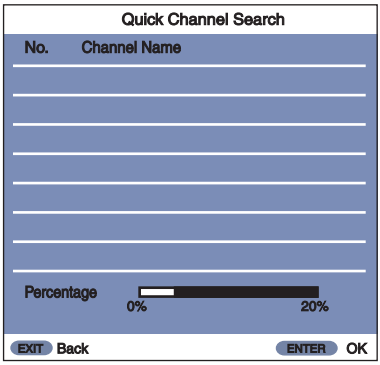
3. Select { **YES** }, and press **OK**.
   ➔ The setup display for selecting the time zone appears.



4. Select the time zone for your area, and press **OK**.
   ➔ The setup display for tuner setting appears.



5 Select the tuning method, and press **OK**. If you select { **Quick Channel Search** }, select your city and press **OK**.
➔ The recorder automatically starts searching for all of the receivable channels and presets them.



Other option:

{ **Auto Channel Search** }
Presets all receivable channels. For details, see page 34.

6 Press **OK** when { **Finish** } appears.
➔ { **Quick Setup** } is completed.

To return to the previous step
Press **BACK**.

To select the picture size according to your TV
Set { **TV Shape** } in { **Video/Audio** } menu (page 36).

To select the type of video signals output from the HDMI OUT or COMPONENT VIDEO OUT sockets
Set { **Video Format** } in { **Video/Audio** } menu (page 36).

To select the audio output method from the DIGITAL AUDIO OUT socket
Set { **Digital Audio Output** } in { **Video/Audio** } menu (page 37).

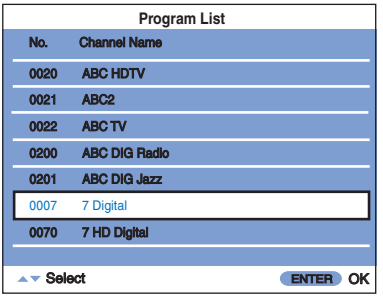
Helpful Hint:
– If you want to run { ***Quick Setup*** } *again, press* ***MENU****, then select* { ***Quick Setup*** } *and press* ***OK****.*

Note about the clock setting:
This recorder automatically adjusts its clock according to the time signals from the broadcaster in the area selected in step 4 above, or { **Time Zone** } in the { **Installation** } menu. You do not need to, (and cannot manually) adjust the clock for Day Light Savings Time, and these are the ONLY settings that affect the clock. Since the clock entirely depends on the broadcaster sending the correct time signals, if { **Time Zone** } in { **Installation** } menu Setup is correct and yet the clock is wrong, it is not a malfunction.

Selecting a channel from the Channel List

The Channel List display allows you to select a channel from a scrollable list of all available TV channels.

1. Press **CH LIST**.
   ➔ The scrollable channel list appears.



2. Press cursor ▲ ▼ keys to select the channel you want to watch and press **OK**.

Selecting a channel from the Favourite List

You can list your favourite TV channel, and select the channel from the list display.

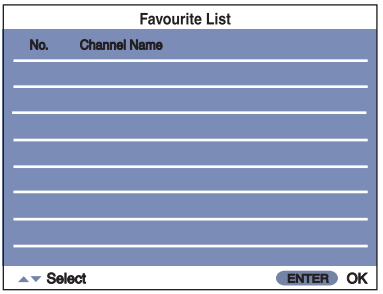
Making your own Favourite List

You can create one Favourite List.

1. Press **MENU**.
   ➔ { **Main Menu** } appears.
2. Select { **Setup** }, and press **OK**.
   ➔ { **Setup** } appears.
3. Select { **Channel** } and press **OK**.
4. Select { **Channel Edit** } and press **OK**.
   ➔ The display for entering the password appears.
5. Enter your four-digit password using the **alphanumeric keypad**.
   ➔ If you have not yet set a password, enter '0000' (default). To set or change the password, see page 35.
   A list of all receivable channels appears.
6. Select the channel you want to add to your Favourite List, and press the **Yellow** button.
   ➔ { ♥ } appears next to the selected channel.
7. To cancel the selection, select the channel and press the **Yellow** button.
   ➔{ ♥ } disappears.

View your Favourite List

1. Press **FAVORITE**.
   ➔ { **Favourite List** } appears.



2. Press cursor ▲ ▼ keys to select the channel you want to watch, and press **OK**.
   ➔ To select a channel not on the { **Favourite List** }, press **FAVORITE** to turn off the list, and press **CH LIST** to select the channel from { **Channel List** }.
   ➔ After step 2, the P +/– buttons select only the channels on { **Favourite List** }. To return the button's status, press **CH LIST** to display { **Channel List** }, then select a channel and press **OK**.

Additional Viewing Methods

Checking programme information

Press **INFO** while watching TV.
The programme information of currently playing and next will display.

Press **INFO** or **BACK** to turn off the display.

Watching digital text programme (TELETEXT)

This recorder can access to a dedicated text channels which are transmitted by the broadcasters.

Note:
The appearance, content, and navigation methods of all digital text services are decided by the broadcaster.

1. Press **TEXT**.
   ➔ The digital teletext display appears.
2. Follow the on-screen instructions to obtain your required selection.
   ➔ On some pages the TV programme may also be displayed on the text screen. On-screen instructions will guide you how to change the displayed programme.
3. Press **TEXT** again to turn off the text page display.

Pausing a TV broadcast (Pause Live TV)

You can pause a live TV programme and resume playback at the scene it was interrupted at a later time.

1. While watching a TV programme by using this recorder, press **PAUSE LIVE TV ▶II**.
   You can pause the picture for up to available HDD capacity.
2. Press **PAUSE LIVE TV ▶II** again to resume watching the paused programme.
3. Press **STOP ■** during Pause Live TV.
   ➔ A confirmation message appears to save time shift.

Notes:
– Paused titles are not saved to the HDD, once Pause Live TV is cancelled.
– This function may be cancelled when:
  – any buttons other than **PAUSE LIVE TV ▶II**, **I◀/▶I**, or **◀◀/▶▶** is pressed.
  – the recorder is turned off.
– It may take a few seconds to resume playback of the paused programme.
– Even if you fast forward the paused programme, there will always be a time difference of about ten seconds or more between the paused programme and the current TV broadcast.

Watching TV (continued)

About temporary HDD storage (Time Shift Buffer)

As soon as you switch on this recorder, the currently selected TV program will be storaged in a temporary hard disk storage called 'TSB' (Time Shift Buffer)

In tuner mode, by pressing the **DISPLAY** key Time Shift video bar will appear on the screen, it indicates the status and timing of the TV programs stored in the temporary HDD storage. You can choose to options or remove the video bar by pressing again the **DISPLAY** key on the remote control.

The Time Shift video bar consists of the following information :

① Icon which shows the status of the time shift buffer.
- playback of content stored in the time shift buffer.
- marks the beginning of content recording.
- the current screen has been paused from playback. (this will not pause recording.)

② The elapsed time of the time shift buffer.

1 Press **PAUSE LIVE TV ▶II** again to resume watching the paused programme.
➔ Playback will start from point of pausing.

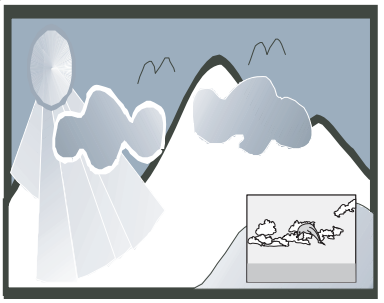
2 Press **STOP ■** during Pause Live TV.
➔ Confirmation screen appears.
➔ You can save the temporary HDD storage permanently in the hard disk.

WARNING!
The Pause Live TV will pause, when there is not enough hard disk space.

Watching another programme in the sub-picture (Picture-in-Picture)

You can view a current TV broadcast in the sub-picture while watching another TV programme.

1 Press **PIP** during recording or while watching TV.
➔ A sub-picture appears in the corner with another TV programme being broadcast.



During Picture-in-Picture mode;
– Press cursor ▲ ▼ keys to change TV channel of sub-picture.
– Press **PIP SWAP** to switch the main and sub-pictures.
– Press cursor ◄ ► keys to move the sub-picture position.

2 Press **PIP** again to turn off the sub-picture.

Helpful Hint:
*− You can record a TV programme in the sub-picture. Press **PIP SWAP** to switch the main and sub-pictures, and press **REC ●**.*
− You can also view a TV programme while playing back a recorded title (page 29).

Notes:
− You can only change channel in the sub-picture. For other operations, the picture has to be switched to the main picture.
− Only main picture audio is output.

Guide (Electronic Programme Guide) Overview

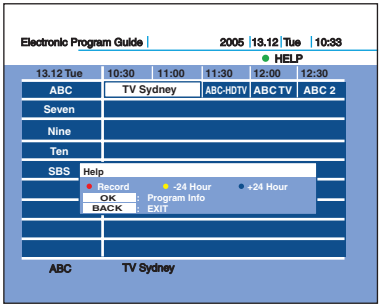
The Guide provides a quick and easy way to:
– view a complete list of all available channels.
– view a channel list related to a chosen category.
– select a programme to be recorded.

Note:
Digital Services availability depends on the broadcaster. As of 2007, only now and next programme information is available. If { **No Event Information** } is displayed, it is not a malfunction of the recorder. Digital services are not instantly available when the recorder is first turned on.

Watching a programme from the Guide

1. Press **GUIDE**.
   ➔ The { **Electronic Program Guide** } display shows a seven channel programme list covering a two hour period.

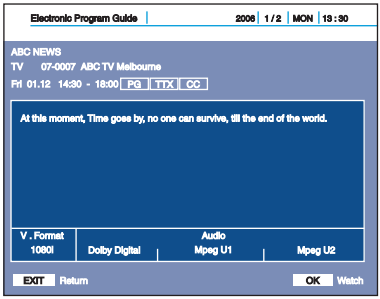
2. Press **Green** button.
   ➔ Help menu appears.
   ➔ To guide you, the functions of colour buttons in the Guide display.
   ➔To turn off Help menu, press **BACK.**



3. Press **Blue** button to view +24hr recording programme.

4. Press **Yellow** button, to view - 24hr recording programme.

5. Press cursor ▲▼ keys to select a programme and press **OK**.
   ➔ The information of the selected programme appears.



To turn off { Electronic Program Guide } display
– Press **GUIDE** or **BACK**.

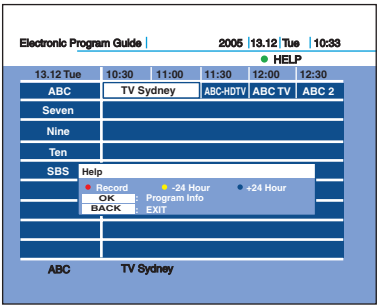
Watching TV (continued)

Recording from the Guide

The Guide feature simplifies recording or setting of the timer. Simply select the programme you want to record in the { **Electronic Program Guide** } display.

Helpful Hint:
– Timer recordings will be made regardless whether or not the recorder is turned on. You can turn off the recorder without affecting the recording even after recording starts.
– You can record or set the timer for two TV programmes at the same time. Note that a third timer setting overlapping two other settings cannot be made.
*– To record or set the timer for a programme that does not appear in { **Electronic Program Guide** }, see "Recording" for details (page 25).*
– Check that recorder has enough available disk space for the recording (page 36).
– If any digital teletext is operated while recording, its contents will be recorded on the HDD including closed captioning (Supertext).
*– To display subtitles press **SUBTITLE**, this selects p801 as used for closed captioning.*

1 Press **GUIDE** to display { **Electronic Program Guide** }.



2 Select a current TV broadcast or a future programme you want to record, and press the **RED** button.

– When you select a programme currently broadcast, recording starts. { ● } appears on { **Electronic Program Guide** }, indicating the programme is being recorded. The recording continues until the programme finishes.

Recording the Programme You are Watching

1 Press **P +/–** to select the channel you want to record.
For details about selecting channels, see page 20.

2 Press **REC ●**.
➔ Recording starts and will stop automatically at the end of the programme.

To stop recording
Select the programme being recorded and press **STOP ■**.

To watch another TV channel while recording
Press **P +/–** to select the channel you want to watch.

Helpful Hint:
*– You can also record the current TV broadcast using the { **Electronic Program Guide** } display (page 23).*
– While recording two programmes, two REC indicators are lit on the recorder.

Notes:
– After pressing **REC ●**, it may take a short moment to start recording.
– If there is a power failure, the programme you are recording may be erased.
– While recording two programmes, you can select only the channels in the same transport stream of the recording channels.

To check recording information
Press **DISPLAY** during recording.
Each time you press the button, the display changes as follows:

{ **Recording Time Bar** } → { **I-Plate** } → { **Display off** }.

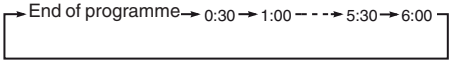
The display differs depending on the recording status.

Extending the current recording (Quick Timer)

You can extend the current recording in 30 minute increments.

Press REC ● repeatedly to set the duration.

Each press advances the time in 30-minute increments. The maximum duration is 6 hours.



The time counter decreases minute by minute to 0:00, then the recorder stops recording (power does not turn off). Even if you turn off the recorder during recording, the recorder continues to record until the time counter runs out.

Helpful Hint:
*You can set the Quick Timer for two programmes at the same time. After setting the Quick Timer for one programme, select another channel to record and press **REC ●** repeatedly to set the duration in the same way.*

Note:
If the programme has no **Guide** information, the recorder automatically stops recording after six hours rather than until the end of the programme.

English

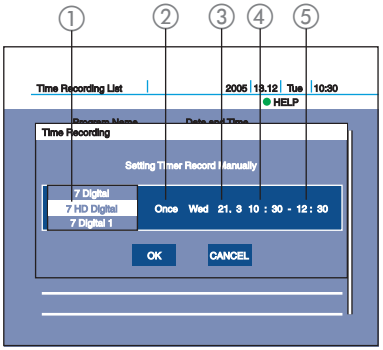
Setting the Timer

You can set the date, time, and channel name of up to 40 programmes one month in advance.

Helpful Hints:
– Timer recording still can be made regardless the recorder is turned ON or OFF.
– You can set the timer only for two TV programmes overlapping the same time period.

Notes:
– Before recording, make sure the recorder had enough available disk space.
– If any digital teletext is operated while recording, its contents will be recorded on the HDD including closed captioning (Supertext).

1 Press **TIMER**
➔ { **Timer Recording** } appears.



The Timer Recording screen consists of the following information :

① Channel selection mode.
② Repeat mode.
③ Date.
④ Start Time.
⑤ Stop Time.

2 Press cursor ▲ ▼ keys to select the channel mode and press **OK**.

3 Press cursor ▲ ▼ keys to select the Repeat mode and press **OK**.
➔ The Repeat mode changes as follows:

Example: Today is 30.10 (Monday)

{**Once**}, {**Sun**}, {**Mon**}, {**Tue**}, {**Wed**}, {**Thu**}, {**Fri**}, {**Sat**}, {**Mon-Fri**}, {**Weekend**}, {**Daily**},

4 Press cursor ▲ ▼ keys to set the date.

5 Press number keys to set the start time and stop time.
➔ You can also use the cursor ▲ ▼ keys to set the start and stop time.

6 Press **OK** to confirm the setting.
➔ The Timer List appears. The **TIMER REC** indicator lights up on the front panel.

To stop recording during timer recording
Select the recording TV channel and press **STOP ■**.

Checking /changing /canceling timer settings (Timer List)

You can check, change, or cancel timer settings using the Timer List.

1 Press **MENU** on the remote control.
➔ **{ Main Menu } appears**.

2 Select { **Timer List** }, and press **OK**.
➔ { **Timer Recording List** } appears.
Timer information displays the recording date, time, etc.

3 Press cursor ▲ ▼ keys to scroll the list.

4 Select the timer setting you want to change or cancel, and press **OK**.

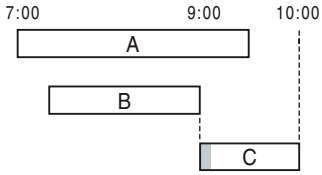
5 Select one of the options, and press **OK**.
➔ { **Edit** } Changes the timer setting.
Select an item using cursor ◄ ► keys and change the setting using cursor ▲ ▼ keys.
➔ { **Delete** } Erases the timer setting.
➔ { **Stop Timer Setting** } To cancel the timer setting.

6 Press **OK** to confirm the selection.

7 Press **Yellow** button.
➔ { **Timer Recording** } appears.
➔ You can set the new timer setting while in the Timer Recording List screen.
➔ Press **Green** button to display the help menu.

To change or cancel the other settings, repeat steps 2 and 3.

When the end time of one recording and the start time of another are the same
While recording two programmes (A, B), the recording (C) may be delayed after finishing the previous recording (B).



To turn off the Timer List
Press **TIMER** or **BACK**.

Helpful Hint:
While recording, you cannot modify the timer setting for the current recording.

About simultaneous two-channel recording and priorities

– You cannot use the live TV pause function while recording two channels.

– You cannot perform Timer Recording while doing two recording.
The function will start as soon as possible when recording stops.

– You cannot tuning, other than recorded channels, when two tuners are occupied in recording.

When three recordings overlap

The recording that starts earlier has priority.
When the start time is the same, manual recording has priority over a timer recording.

Recording Time

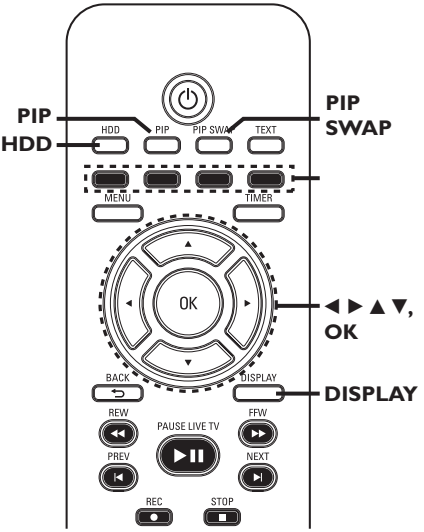
Recording time differs depending on whether the recorded programme is HD (High Definition) or SD (Standard Definition) signal. Note that the recording times in the following table are approximate and that actual times may differ.
Note also that the maximum continuous recording time for a single title is six hours. Contents beyond this time will not be recorded.

	Recording time (hours)	
	DVR7100	DVR5100
HD only (15 Mbps)	36 hours (Approx.)	23 hours (Approx.)
SD only (8 Mbps)	69 hours (Approx.)	44 hours (Approx.)

The above recording time is approximate, and may be different depending on the amount of data of the programme.

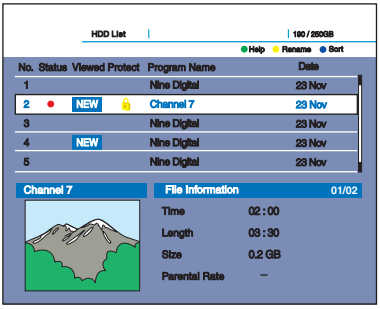
Playing a Recorded Programme (HDD)

You can play back the recorded programme by selecting the title from the HDD List.



1 Press **HDD** on the remote control.
➔ { **HDD List** } appears.

Helpful Hint:
You can press the cursor ◄ ► keys to page up/down HDD List.



2 Press the cursor ▲ ▼ keys to select title and press **OK**.
➔ { **Sub menu** } appears.

3 Select one of the options, and press **OK**.

{ **Close** }
Turn off the menu.

{ **Play** }
Plays the selected title.
If you select after you stop playback, playback starts from the point where you stopped (Resume Play).

{ **Play Beginning** }
Plays from the beginning of the title.

{ **Repeat Play** }
Plays the selected title repeatedly.

{ **Protect** }
To protects a title.

{ **Delete** }
To delete the title from HDD List.

During playback, you can use the following buttons to perform additional playback features

I◄◄/►►I – Goes to the beginning of the previous/next chapter point. Chapter points are marked in about five minute intervals.

◄◄/ ►► – Fast reverse/fast forward the disk when pressed during playback. Search speed changes as follows:

Fast reverse	Fast forward
◄◄ I←	→ I ►►
◄◄ 2← ←	→ → 2 ►►
◄◄ 3← ← ←	→ → → 3 ►►

– Plays in slow motion when pressed in pause mode.

PAUSE LIVE TV ►II (pause)
– Pauses playback. Press again to resume.

STOP ■ – Stops playback.

To change the title order (Sort)
Press the **Blue** button and use cursor ▲ ▼ keys to select an item and press **OK**.

Order	Sorted
By Date	In order of when the titles were recorded. The title that is recorded most recently is listed at the top.
By Program Name	In alphabetical order.
By Viewed Program	On order of whether the title was played back or not. The title that is not played back and recorded most recently is listed at the top.
By protect	on order of protected title is listed at the top.

Helpful Hint:
– You can also select { ***HDD List*** } *from the* { ***Main Menu*** }.
– The sub-menu displays options applicable only to selected item. The displayed options differ depending on the situation.

To check playback information

Press **Display**
Each time you press the button, the display changes as follows:

{ **Playback information** } →
{ **I-Plate** } → { **Display off** }.

The displays differ depending on the playing status.

Helpful Hint:
– You can also check playback information on the front panel display.

To watch TV in the sub-picture (Picture-in-Picture)

You can view a current TV broadcast in the sub-picture during playback.

Press **PIP** during playback.
A sub-picture appears in the corner with a TV programme being broadcast.

Press cursor ▲ ▼ keys to change channel of sub-picture.
Press cursor ◄ ► keys to move the sub-picture position.

Press **PIP** again to turn off the sub-picture.

Notes:
− You cannot switch the main picture and the sub-picture.
− You can only change channels for the picture appearing in the sub-picture.

Playback (continued)

Playing from the beginning of the programme you are recording (FlexTime)

"FlexTime" allows you to view the recorded part of a programme while the recording is being made. You do not need to wait until the recording finishes.

1. Press **HDD** while recording.
2. Select the title currently being recorded (appears with { ● }), and press the **OK** button.
3. Select { **Play** } from the sub-menu and press **OK**.
   ➔ Playback starts from the beginning of the programme you are recording. FlexTime pauses when you fast forward to the point that you are recording.

Notes:
− FlexTime does not start immediately after recording starts.
− Even if you fast forward the recorded programme, there will always be a time difference of about ten seconds or more between the recorded programme and the current TV broadcast.

Playing a previous recording while making another (Simultaneous Rec and Play)

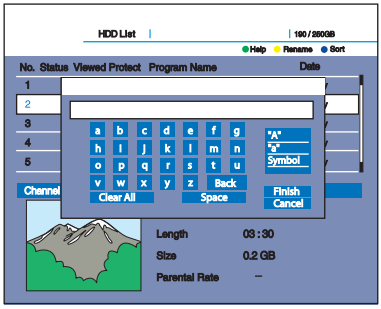
"Simultaneous Rec and Play" allows you to view a previously recorded programme while recording programmes. Playback continues even if a timer recording starts.

1. Press **HDD** while recording.
2. Select the title you want to play, and press the **OK** button.
3. Select { **Play** } from the sub-menu, and press **OK**.
   ➔ Playback starts.

Labelling a Title (Entering Characters)

You can enter up to 38 characters for a title.

1. Press **HDD**.
   ➔ { **HDD List** } appears.
2. Press the **Yellow** button.
   ➔ The display for entering characters appears.



3. Press the cursor keys to select { **A** } (upper-case), { **a** } (lower-case), or { **Symbol** }, and press **OK**.
   ➔ The characters of the selected type are displayed.
4. Press the cursor keys to select characters you want to enter and press **OK**.
   ➔ The selected character appears at the top of the display.

   Erasing a character
   Move the cursor to the right of the character, select { **BACK** } and press **OK**.

   Inserting a character
   Move the cursor to the right of the point you want to insert the character, select the character and press **OK**.

   Erasing all of the characters
   Select { **Clear All** } and press **OK**.
5. Select { **Finish** } and press **OK**.
   To cancel the setting, select { **Cancel** }.

Protecting a Title

You can protect titles from accidentally erase.

1. Press **HDD** on the remote control.
   ➔ { **HDD List** } appears.
2. Press the cursor ▲ ▼ keys to select title and press **OK**.
   ➔ The sub-menu appears.
3. Select { **Protect** } and press **OK**.
4. Select { **On** } when the { **Protect** } display appears.
   ➔ { 🔒 } appears next to the protected title. To cancel the protection, select { **Off** }.

Freeing up space on the HDD

You can erase recorded titles to create disk space.

Erasing a title

1. Press **HDD** on the remote control.
   ➔ { **HDD List** } appears.
2. Press the cursor ▲ ▼ keys to select title and press **OK**.
   ➔ The sub-menu appears.
3. Select { **Delete** } and press **OK**.
4. Select { **Yes** } when asked for confirmation.
   ➔ The selected title is erased.

Managing the HDD Contents (continued)

Erasing all titles (Format Hard Disk)

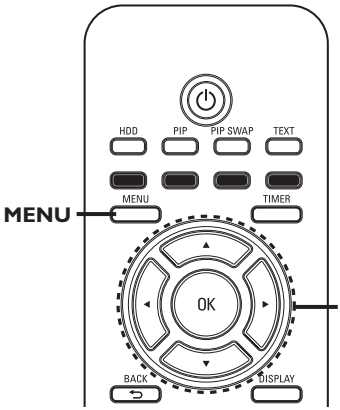
You can erase all the titles in the HDD at once.

1. Press **MENU** while the recorder is in stop mode.
2. Select { **Setup** }, and press **OK**.
3. Select { **HDD setting** }, and press **OK**.
4. Select { **Delete HDD** }, and press **OK**.
   ➔ The display for entering the password appears.
5. Enter your four-digit password using the alphanumeric keypad.
   ➔ If you have not yet set a password, enter "0000" (default). To set or change the password, see page 35.
   The display asks for confirmation
6. Select { **YES** } and press **OK**.
   ➔ All titles in the HDD are erased.The recorder automatically turns off.

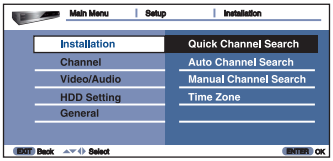
Notes:
− Any protected title, including the timer settings, will also be erased.
− To set or change the password, see page 35.

Accessing the setup menu

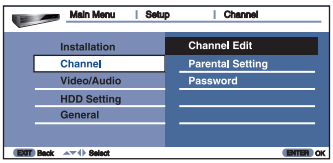
The system setup enables you to customize the recorder to suit your preferences.



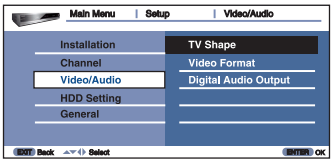
1. In stop mode, press **MENU**.
2. Select { **Setup** }, and press **OK**.
   ➔ The setup menu appears.
3. Press cursor ▲▼ keys to select a set up menu option ({**Installation**}, {**Channel**}, {**Video/Audio**}, {**HDD Setting**} or {**General**}).
4. Press cursor ► key to select a sub menu and press **OK** to access.
5. Select the setting you wish to change and press **OK** to confirm.
   ➔ Instructions and explanations of the options are provided in the following pages.
   ➔ If the option in the menu is greyed out, that means the setting is not available or cannot be changed in the current state.
6. To exit, press **MENU**.



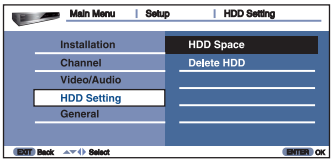
see page 34



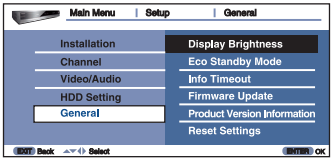
see pages 34~35



see pages 36~37



see page 37



see pages 37~38

Setting and Adjustments (continued)

Operation Setting (Installation)

Quick Channel Search

Quickly presets all receivable channels in your area.
1. Select the city you live in, and press **OK**.
2. When the display asks for confirmation, select { **Yes** }, and press **OK**.
   − All receivable channels are preset.
   − Press **OK** when { **Finish** } appears.

Auto Channel Search

Presets all receivable channels.
If some channels cannot be preset after performing { **Quick Channel Search** }, try this.

Manual Channel Search

Use to store your channels manually.
Select the channel you want to preset and press **OK**.
Repeat this step to preset another channel.

Time Zone

{ **NSW/ACT / VIC / QLD / SA / WA / TAS / NT** } - Selects the time zone of your area for clock setting.

Digital TV settings (Channel)

Channel Edit

Enter your four-digit password using the alphanumeric keypad and press **OK**.
− If you have not yet set a password, enter '0000' (default). To set or change the password, see page 35.

{ **Lock** } − To lock certain unsuitable channels for children. Select the TV channel you want to lock, then press the **Green** button.
{ 🔒 } appears next to the locked TV channel.
− To unlock the TV channel, press the **Green** button again.

{ **Favorite** } − Sets the channels as favourites in Favourite Lists. See 'Making your own Favourite List' (page 20).

{ **Hide Channel** } − Disable unused or unwanted channels manually.
Select the TV channel you want to hide, then press the **Blue** button.
− { **X** } appears next to the disabled TV channel.
To cancel the setting, press the **Blue** button again.

Parental Setting

You can set a rate so that any programme classed that rate by the broadcaster is restricted.
Enter your four-digit password using the **alphanumeric keypad**.

{ **Block All** } − Requires password for all programmes.
{ **Block G and above** } − Locks 'General' and above programmes.
{ **Block PG and above** } − Locks 'Parental Guidance' and above programmes.
{ **Block M and above** } − Locks 'Mature' and above programmes.
{ **Block MA and above** } − Locks 'Mature Adult' and above programmes.
{ **Block AV and above** } − Locks 'Adult/Violence' and above programmes.
{ **Block R and above** } - Locks 'Restricted' and above programmes.
{ **No Block** } - No restriction.

Password

This feature enables you to set or change the password for certain operations.

1. Enter your current password using the **alphanumeric keypad**.
2. If you have not yet set a password, enter '0000' (default).
3. Enter your new password using the **alphanumeric keypad** and press **OK**.
4. If you forget your password, enter '0000' (default).

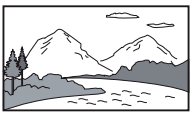
Setting and Adjustments (continued)

Video/Audio Setting (Video/Audio) (shadow options are the factory default settings)

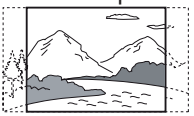
TV Shape

Select picture size according to type of connected TV (wide-screen/wide mode TV or conventional 4:3 screen TV).

{ **16:9 wide-screen** } – Select this when connecting to a wide-screen TV or TV with a wide mode function.



{ **4:3 crop** } – Select this when connecting to a 4:3 screen TV. Automatically displays a wide picture on the entire screen and cuts off the portions that do not fit.



{ **4:3 letter box** } – Select this when connecting to a 4:3 screen TV. Displays a wide picture with bands on the upper and lower portions of the screen.

Video Format

Select the type of video signals output from the HDMI OUT or COMPONENT VIDEO OUT sockets. If the picture is not clear, try another option that suits your TV/projector, etc. For details, refer also to the instruction manual supplied with the TV/projector, etc.

{ **PAL** } – Sends 720x576i video signals.
{ **576p** } – Sends 720x576p video signals.
{ **720p** } – Sends 1280x720p video signals.
{ **1080i** } – Sends 1920x1080i video signals.

Notes:

- When you connect the S VIDEO OUT socket or VIDEO OUT socket to the TV, the recorder always outputs 576i video signals.
- If your TV accepts 720p/1080i format signals, this setting must be made.

Digital Audio Output

Switch the method for outputting audio signals when you connect the DIGITAL AUDIO OUT socket to a component such as an AV amplifier (receiver). For connection details, see 'Step 3: Connecting the audio cords' on page 15.
If you connect a component that does not accept the selected audio signal, a loud noise (or no sound) will come out from the speakers, and may affect your ears or cause speaker damage.
{ **Dolby Digital** } – Select this when the recorder is connected to an audio component with a built-in Dolby Digital decoder.
{ **PCM** } – Select this when the recorder is connected to an audio component without a built-in Dolby Digital decoder.

HDD Setting

HDD Space

Displays the remaining HDD space.

Delete HDD

Erases all the recorded titles in the HDD at once.
Note that protected titles are also erased.
Press **OK** to confirm and press **BACK** ⮌ to exit.

System Setting (General) (shadow options are the factory default settings)

Display Brightness

Select the brightness of the recorder display panel.
{ **Normal** } – Normal brightness.
{ **Dimmed** } – Medium brightness.
{ **Off** } – Turns off the display.

ECO Standby Mode

This is an energy saving mode.
{ **On** } – When you switch the recorder to standby mode, the display panel will turn blank to save power.
{ **Off** } – Clock will display on the recorder's display panel when switching off to standby mode.

Info Timeout

{ **Off / 5 Sec / 10 Sec / 15 Sec / 20 Sec / 30 Sec / 60 Sec** }
– Select the display duration for a programme information box.

Setting and Adjustments (continued)

Firmware Update

This is for possible future updates. Enter your four-digit password using the **alphanumeric keypad**.

– If you have not yet set a password, enter '0000' (default). To set or change the password, see page 35.

Software update screen will appear. Select { **Yes** } and press **OK**.
The set will go to Standby mode, once successfully update the firmware.

Periodically,Philips will issue upgrades for the firmware that was initially installed in your recorder as the firmware is continuously refined for greater stability and compatibility of the recorder.

Caution! Power supply must not be interrupted during upgrade!

Visit Philips website at 'www.philips.com/support' to check for the availability of the latest firmware upgrade.

Note: When checking for the latest firmware upgrade,please also check for any accompanying instructions on installing the firmware.

Product Version Information

Displays the information of product hardware, software, version and release date.

Restore Default

This feature enables you to return the setup settings to their defaults without affecting the recorded titles in the HDD.
Select { **Yes** }, and press **OK**.
The setup settings return to their defaults, and the recorder automatically turns off.

WARNING

Under no circumstances should you try to repair this unit yourself, as this will invalidate the warranty. Do not open this unit as there is a risk of electric shock.

If a fault occurs, first check the points listed below before taking this unit for repair. If you are unable to solve a problem by following these instructions, consult your dealer or Philips for help.

Problem (General)	Solution
No power.	– Press STANDBY-ON on the unit to turn on the power.
No picture.	– Refer to your TVs manual for correct Video In channel selection. Change the TV channel until you see the blue DVD screen.
Completely distorted picture or black/white picture.	– Check the video connection. – Sometimes a small amount of picture distortion may appear. This is not a malfunction.
No sound or distorted sound.	– Adjust the volume. – Check the speaker connections and settings. – Make sure that the audio cables are correctly connected.
The remote control does not function properly.	– Reduce the distance between the remote control and this unit. – Batteries are weak, replace the batteries.

Problem (Playback)	Solution
The unit does not start playback.	– Moisture may have condensed inside this unit. Leave this unit turned on for about an hour. Make sure the hard disc is not scratched.
The aspect ratio of the screen cannot be changed even though you have set the TV display.	– Depending on the TV, it may not be possible to change the aspect ratio.
TV reception is poor.	– If the signal is too weak, adjust the antenna or connect an external antenna for better reception. – Tune in to the correct digital broadcasting signal. – Place the antenna further away from any equipment that may be causing the interference.
The unit does not work.	– Disconnect the power cord from the power outlet for a few minutes. Reconnect the power cord and try to operate again as usual.

Troubleshooting (continued)

Problem (HDMI)	Solution
No video output from HDMI connection.	– HDMI connection can only be made to HDMI-equipped devices with HDCP (High Bandwidth Digital Content Protection). If you wish to connect to a DVI connector (equipped with HDCP), you will need a separate adaptor (DVI to HDMI). – Make sure the resolution of this unit matches the device you have connected using the HDMI. See 'Video/Audio Setting - { Video/Audio - Video Format }' for details.
No audio output from the unit.	– Make sure the connection to amplifier is correct. – If the audio signal does not come through the DIGITAL AUDIO OUT (OPTICAL or COAXIAL) jacks, you have to check the setting. See 'Digital Audio Output' for details.

Problem (Recording)	Solution
Cannot recording even though timer setting was correct.	– Power failure during recording. – There is not enough hard disk space. – The programmes you are trying to record contains copy protection signal that restrict copying.
Recording does not stop immediately after press STOP ■	– It will take a few seconds for the recorder to store the data before it can stop.

Problem (other)	Solution
Mechanical sound is heard when the recorder is off.	– While the recorder is updating the clock information, operational noises (such as the internal fan) may be heard, even when the power is off. This is not a malfunction.

Analogue audio: Sound that has not been turned into numbers. Analogue sound is available when you use the AUDIO LEFT/ RIGHT. These red and white sockets send audio through two channels, the left and right.

Aspect ratio: Aspect ratio refers to the length to height ratio of TV screens. The ratio of a standard TV is 4:3, while the ratio of a high-definition or wide TV is 16:9. The letter box allows you to enjoy a picture with a wider perspective on a standard 4:3 screen.

AUDIO OUT sockets: Red and white sockets on the back of the unit that send audio to another system (TV, Stereo, etc.).

Digital: Sound that has been converted into numerical values. Digital sound is available when you use the DIGITAL AUDIO OUT COAXIAL or OPTICAL sockets. These sockets send audio through multiple channels, instead of just two channels as analogue does.

Dolby Digital: A surround sound system developed by Dolby Laboratories containing up to six channels of digital audio (front left and right, surround left and right, centre and subwoofer).

HDMI: High-Definition Multimedia Interface (HDMI) is a high-speed digital interface that can transmit uncompressed high definition video and digital multichannel audio. It delivers perfect picture and sound quality, completely free from noise. HDMI is fully backward-compatible with DVI.
As required by the HDMI standard, connecting to HDMI or DVI products without HDCP (High-bandwidth Digital Content Protection) will result in no Video or Audio output.

HDD (Hard disk drive): This is a mass data storage device used in computers, etc. Disks are flat, circular, rigid plates coated with a thin magnetic media. Magnetic heads record data on the rapidly spinning disks. This facilitates the reading and writing of large amounts of data at high speed.

S-Video: Produces a clear picture by sending separate signals for the luminance and the colour. You can use S-Video only if your TV has an S-Video In socket.

VIDEO OUT socket: Yellow socket on the back of the system that sends the DVD picture video to a TV.

GUIDE (EPG): The GUIDE (Electronic Programme Guide) is a guide showing programmes which can be displayed on a conventional television (via the Digital Terrestrial Television tuner included in this recorder) as the now and next programmes or the television schedule for a day or more at a time.

Parental control: Limits disc play according to the age of the users or the limitation level in each country. The limitation varies from disc to disc; when it is activated, playback will be prohibited if the software's level is higher than the user-set level.

PCM: Pulse Code Modulation. A digital audio encoding system.

Component Video Out Jacks: Jacks on the back of the DVD System that send high-quality video to a TV that has Component Video In jacks (R/G/B,Y/Pb/Pr, etc.)

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System

Tuners: Two digital HD tuners (to receive digital transmission, see Basic Connection page 12-15)
Transmission standards: DVB-T
Channel coverage: 51 - 858 MHz
The above channel coverage merely ensures the channel reception within these ranges. It does not guarantee the ability to receive signals in all circumstances.
Aerial out: 75-ohm asymmetrical aerial socket
Video format: MP@ML, MP@HL
Audio format: Dolby Digital, MPEG (I and II)

Outputs

AUDIO OUT: RCA jacks (2 each)/2 Vrms/ 10 kilo ohms
VIDEO OUT: RCA jack/1.0 Vp-p/75 ohms
S VIDEO OUT: 4-pin mini DIN/Y:1.0 Vp-p, C: 0.3 Vp-p (PAL)/75 ohms
DIGITAL AUDIO OUT (OPTICAL): Optical output jack/–18 dBm (wave length: 660 nm)
DIGITAL AUDIO OUT (COAXIAL): RCA jack/0.5 Vp-p/75 ohms
COMPONENT VIDEO OUT (Y, P_B/C_B, P_R/C_R):
RCA jack/Y: 1.0 Vp-p, PB/CB: 0.7 Vp-p, PR/CR: 0.7 Vp-p/75 ohms
HDMI OUT:
Type A (19-pin)

General

Power requirements: 220-240 V AC, 50 Hz
Power consumption:
DVR 7100 : 30 W
DVR 5100 : 29 W
Dimensions (approx.): 430 × 80 × 290 mm (width/height/depth) incl. projecting parts
Hard disk drive capacity:
DVR 7100 : 250GB
DVR 5100 : 160GB
Mass (approx.): 4.0 kg
Operating temperature: 5°C to 40°C
Storage temperature: -40°C to +65°C